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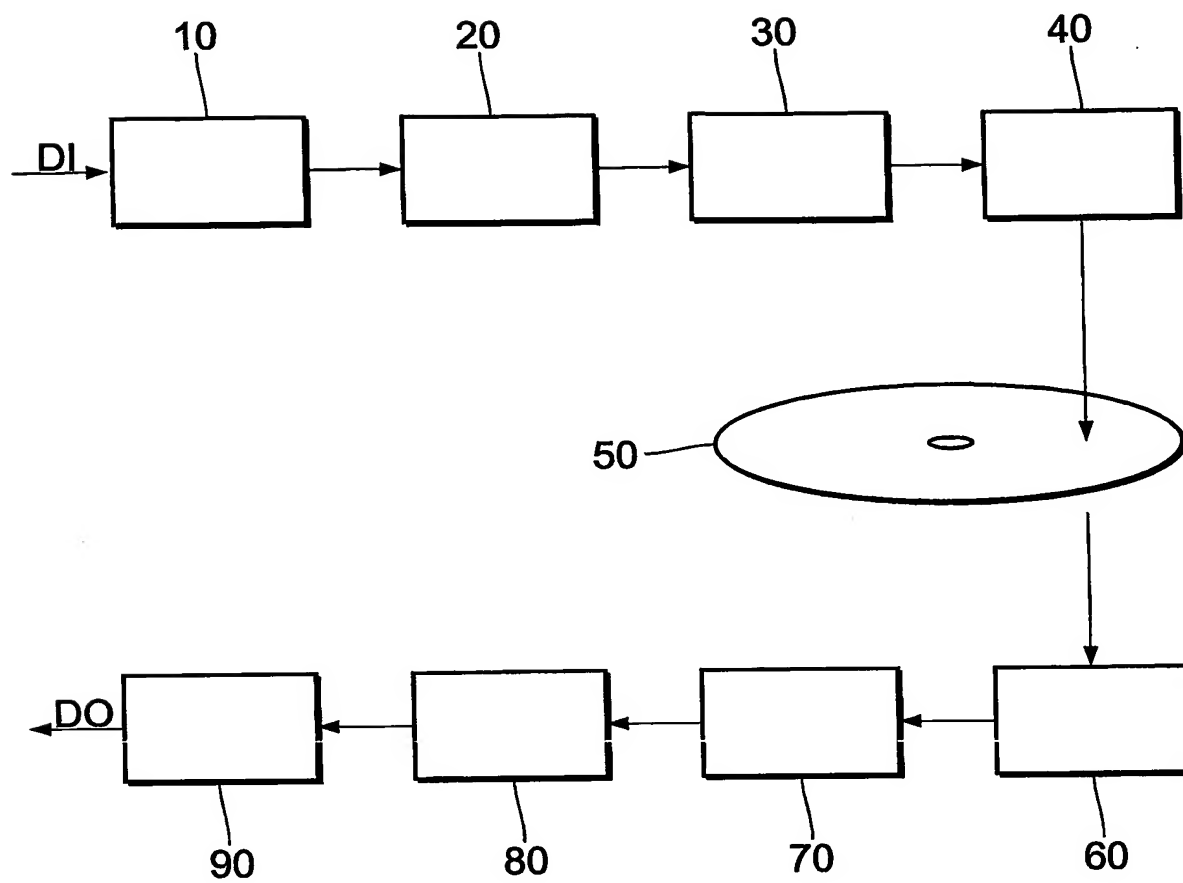


FIG.1

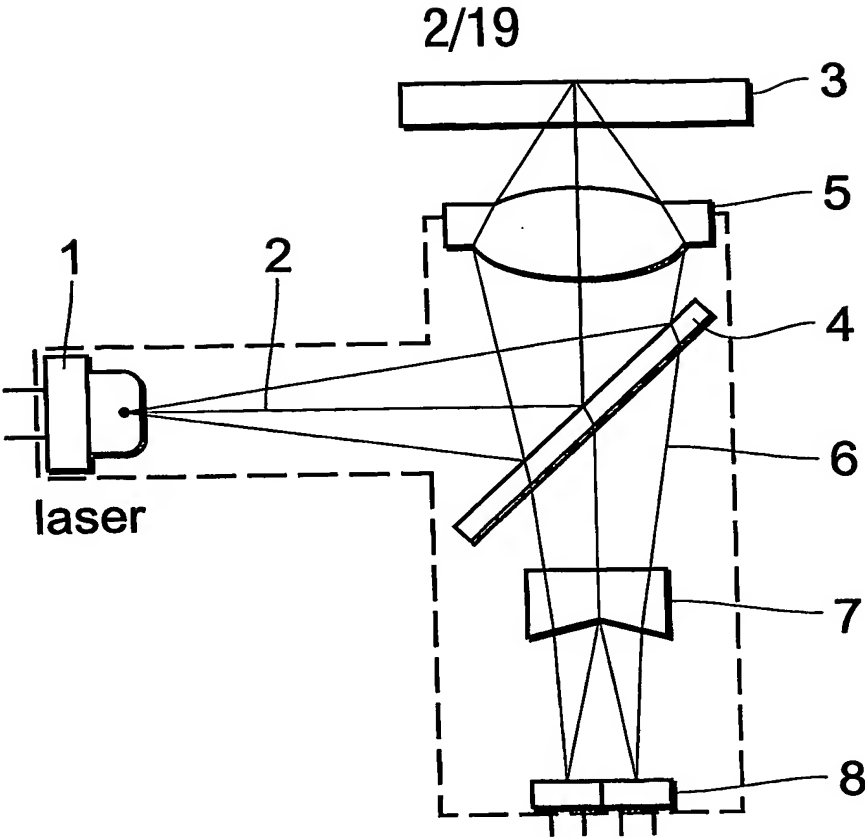


FIG.2

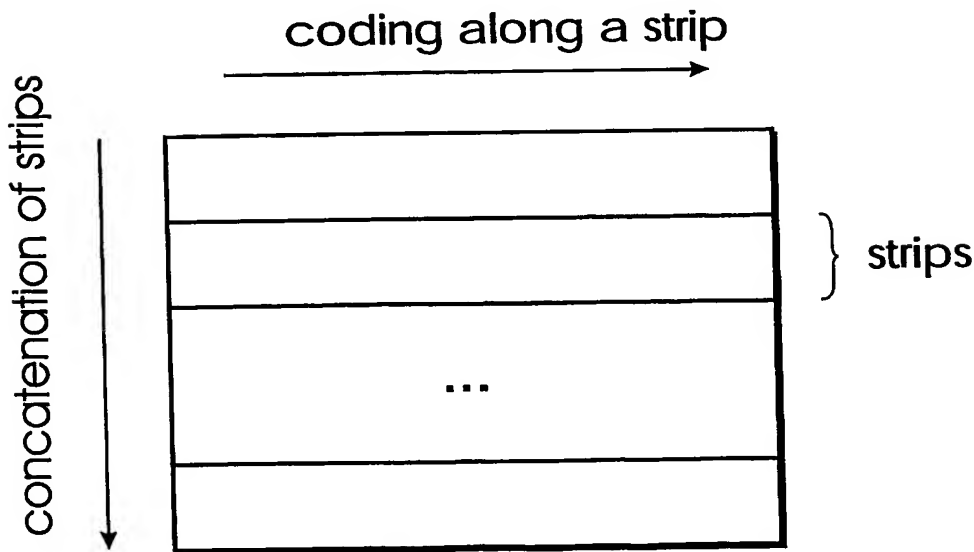


FIG.3

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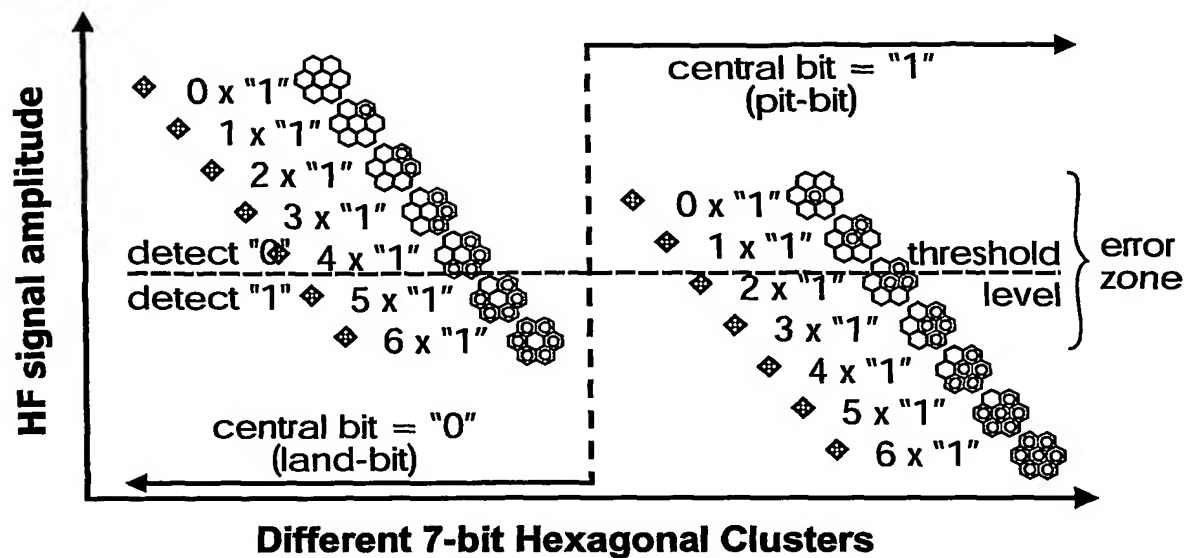


FIG.4

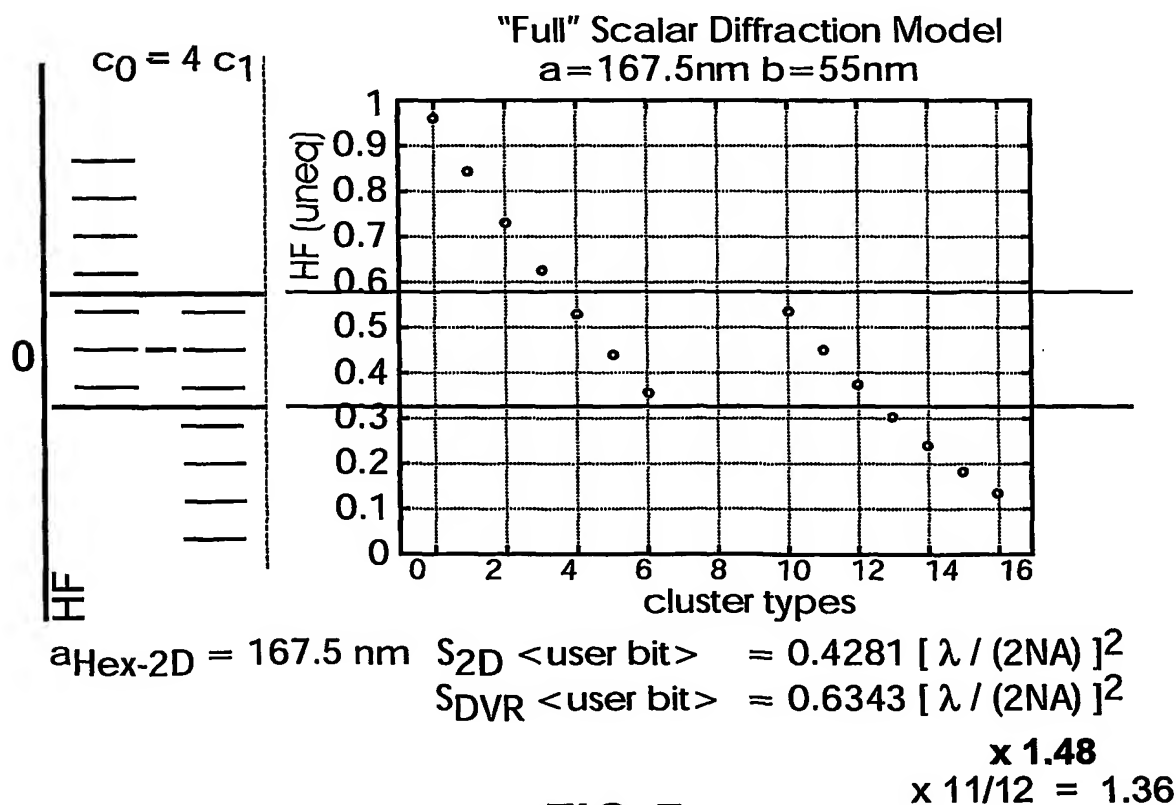
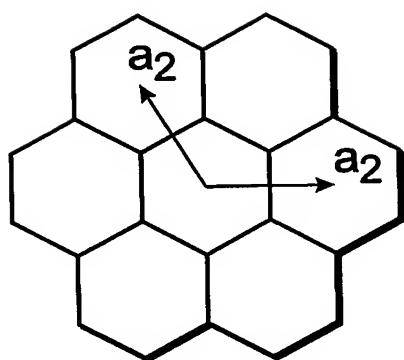


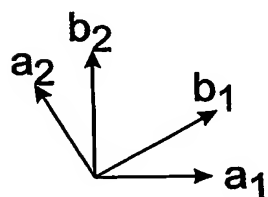
FIG.5

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$$\begin{aligned} a_1 &= [10] & |a_1| &= 1 \\ a_2 &= [01] & |a_2| &= 1 \end{aligned}$$

FIG.6a



$$\begin{aligned} a_i \cdot b_j &= \delta_{i,j} \\ |b_1| &= |b_2| = 1.155 \end{aligned}$$

FIG.6b

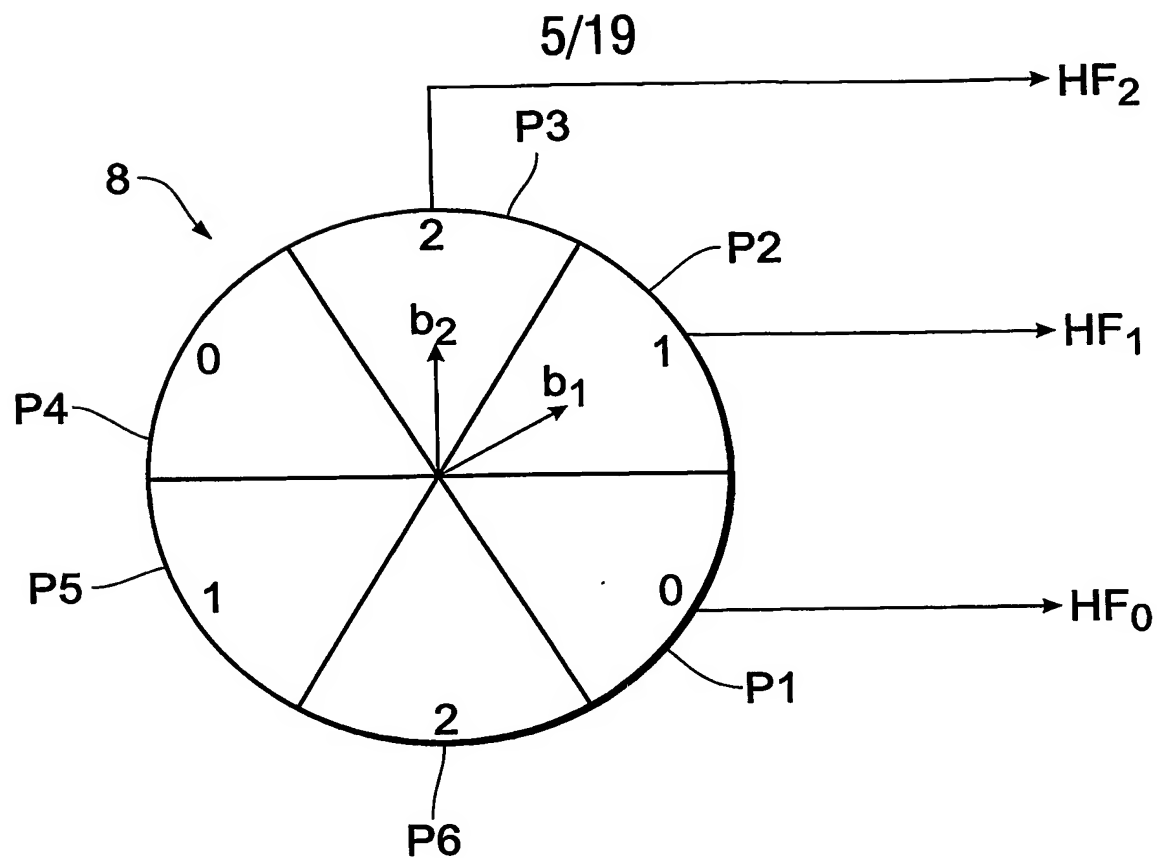
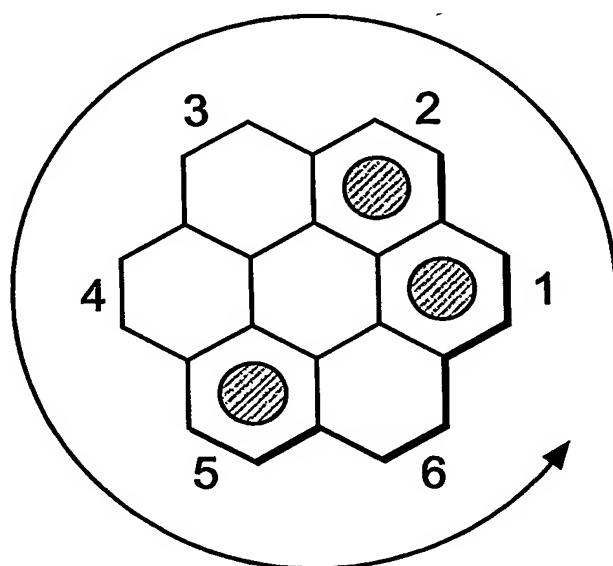
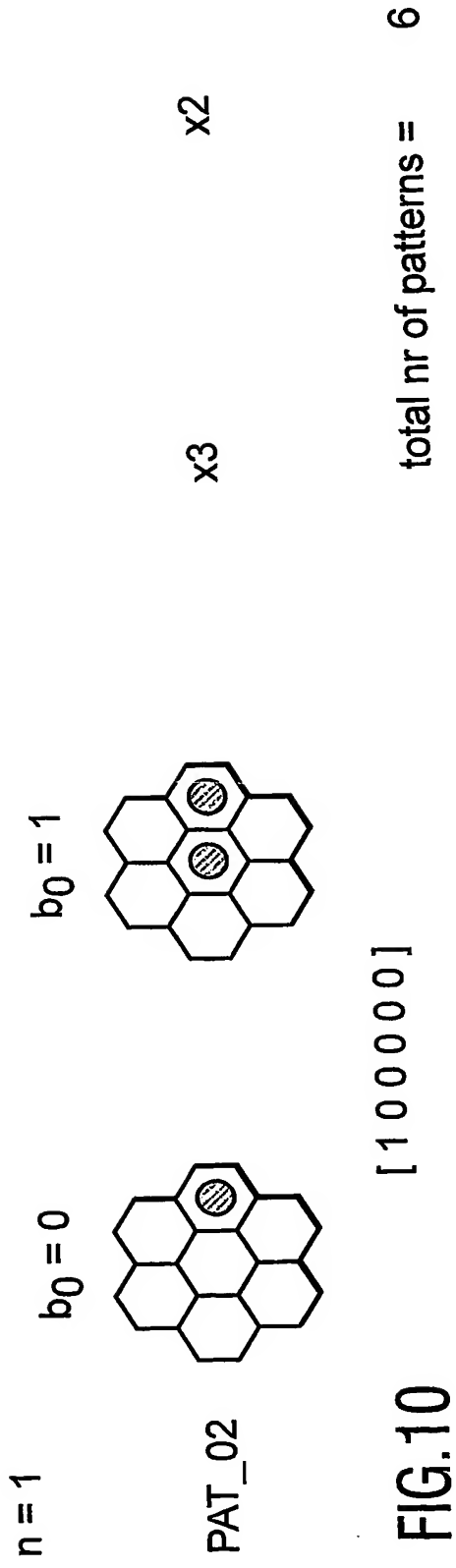
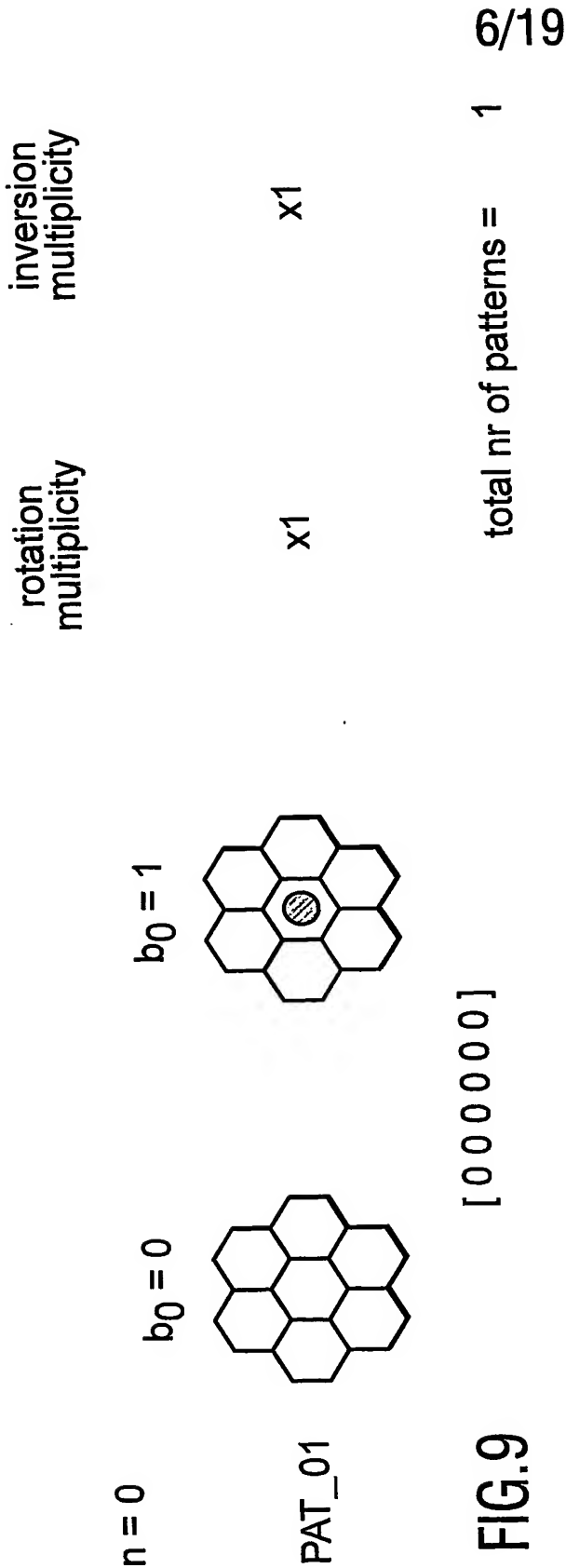


FIG. 7

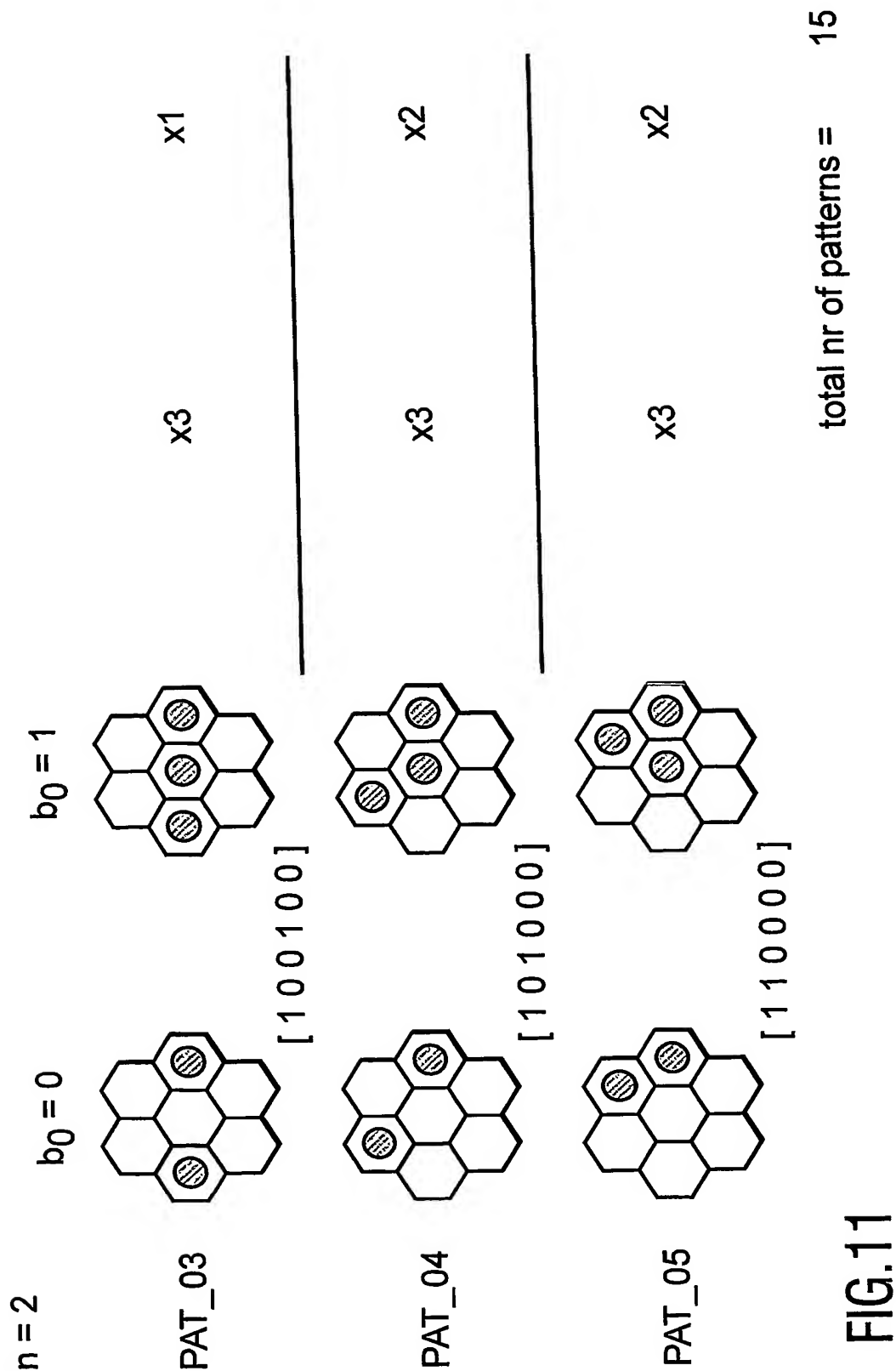


[1 1 0 0 1 0]

FIG. 8



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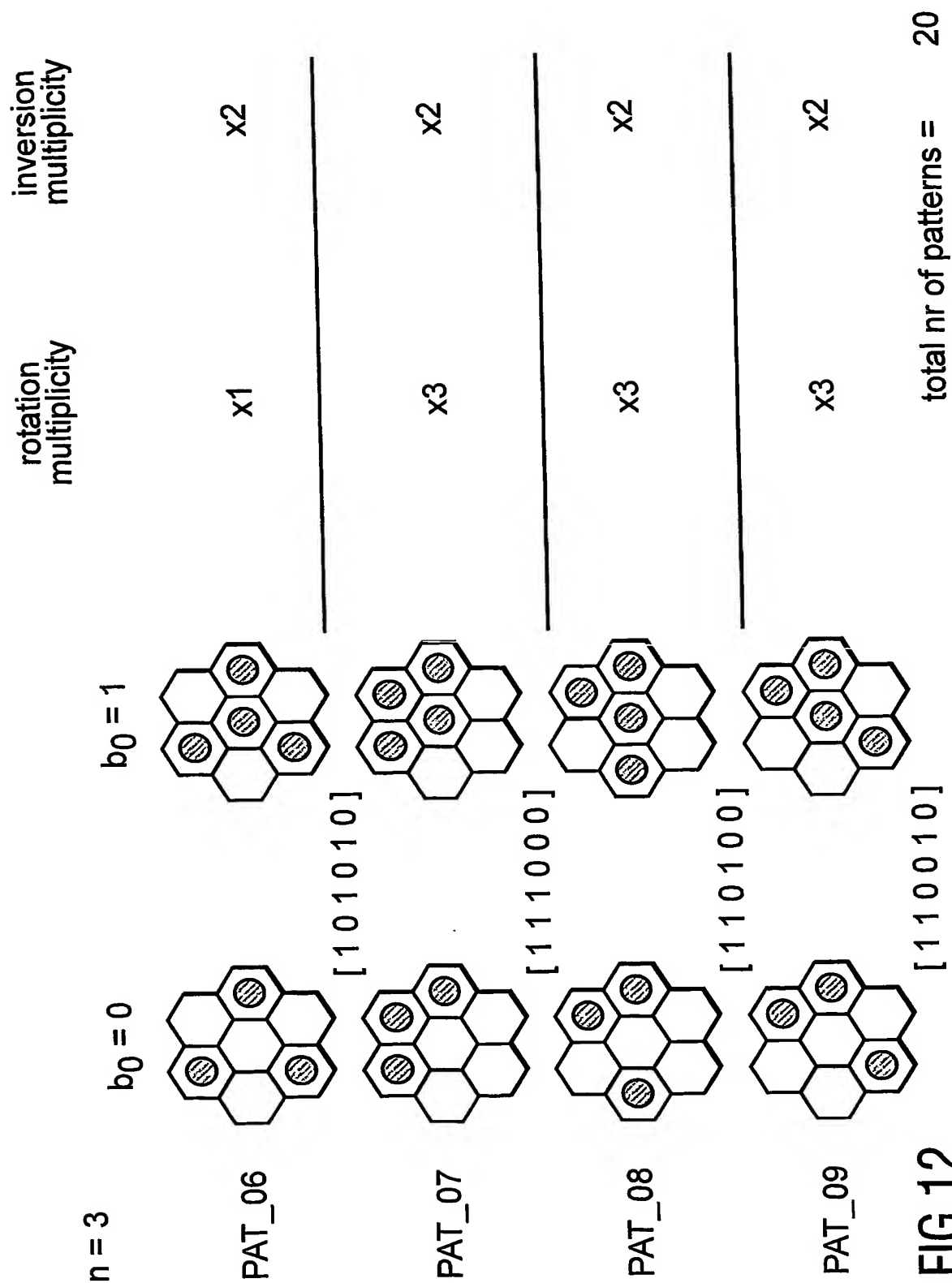


FIG.12

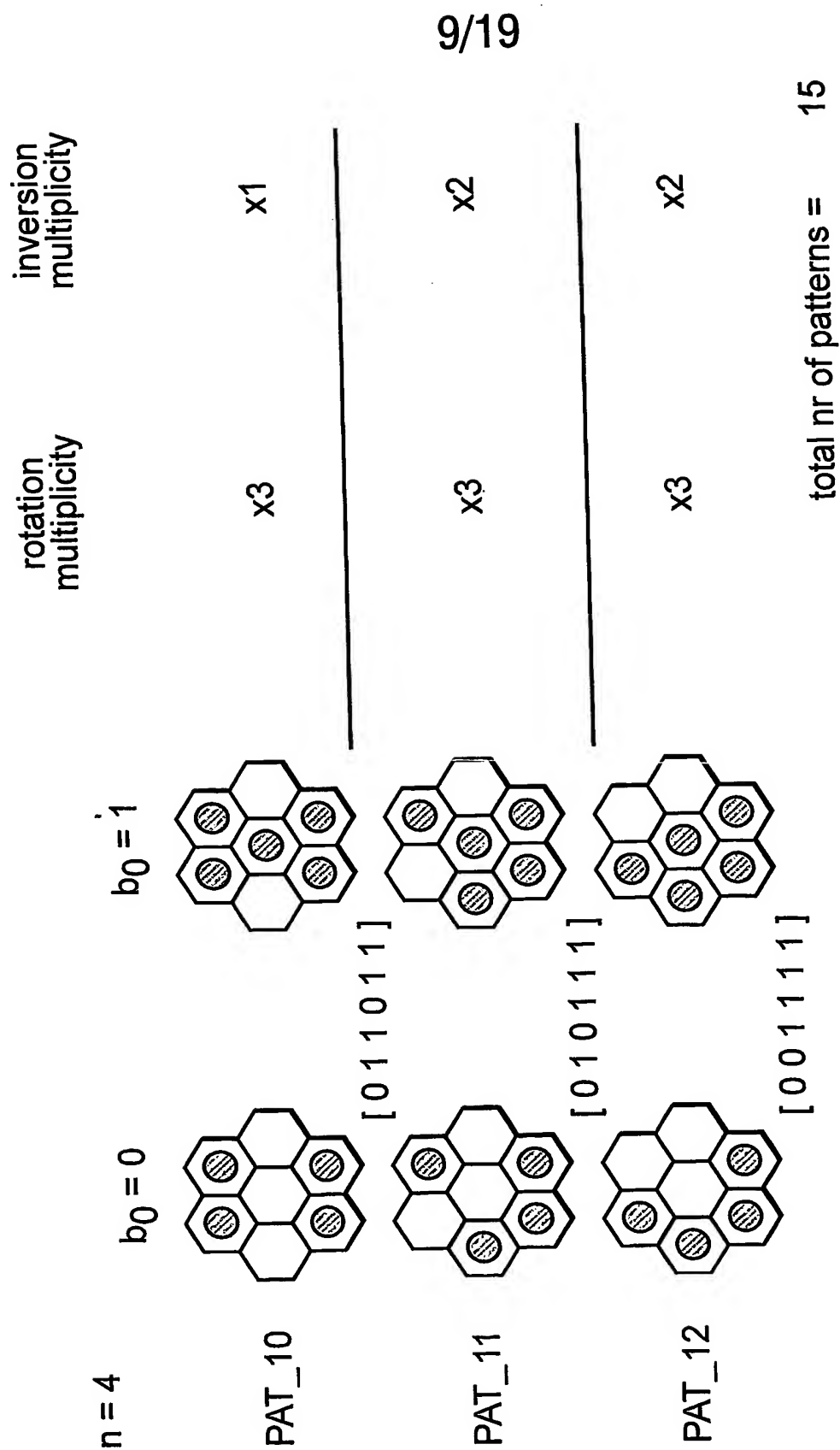


FIG.13

rotation multiplicity	inversion multiplicity
x3	x2
total nr of patterns = 6	

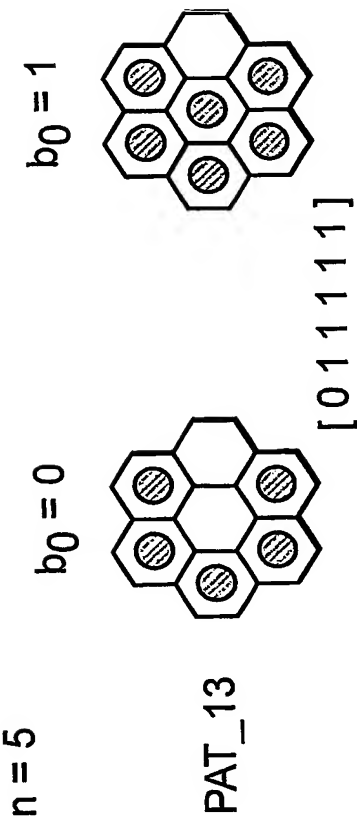


FIG.14

rotation multiplicity	inversion multiplicity
x1	x1
total nr of patterns = 1	

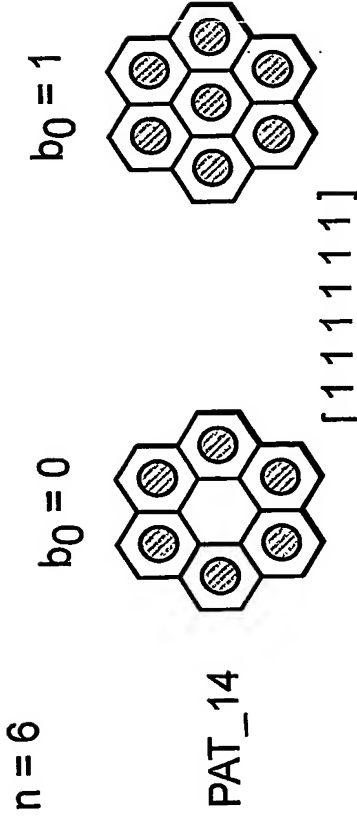


FIG.15

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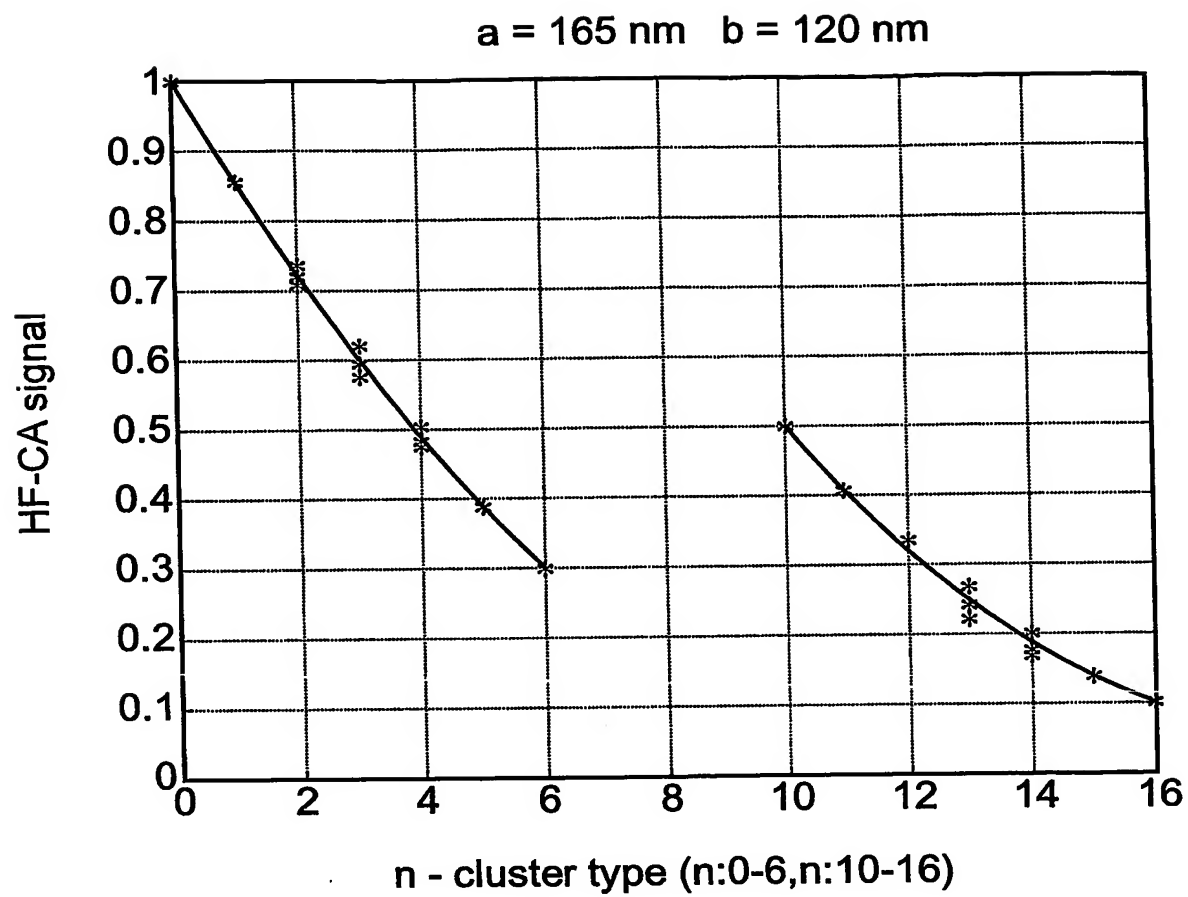


FIG.16

CA-Signals

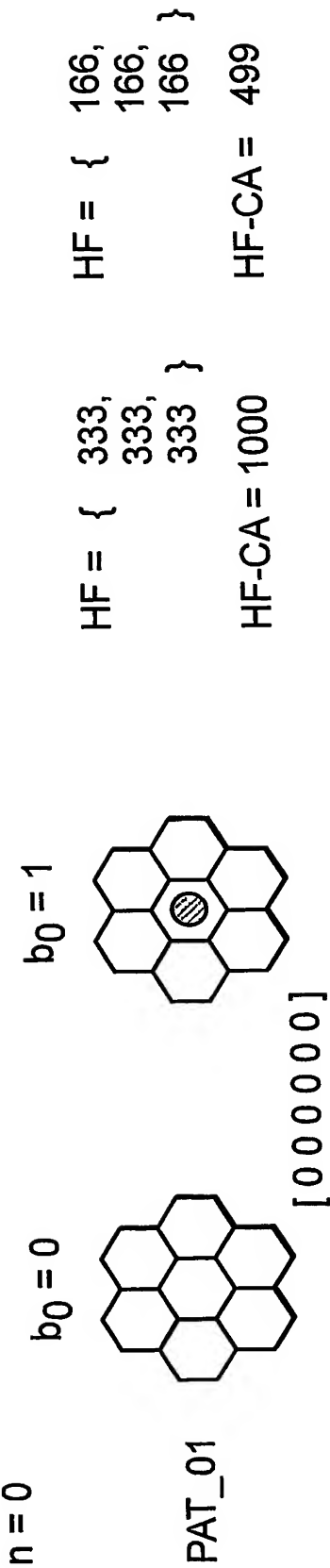


FIG.17

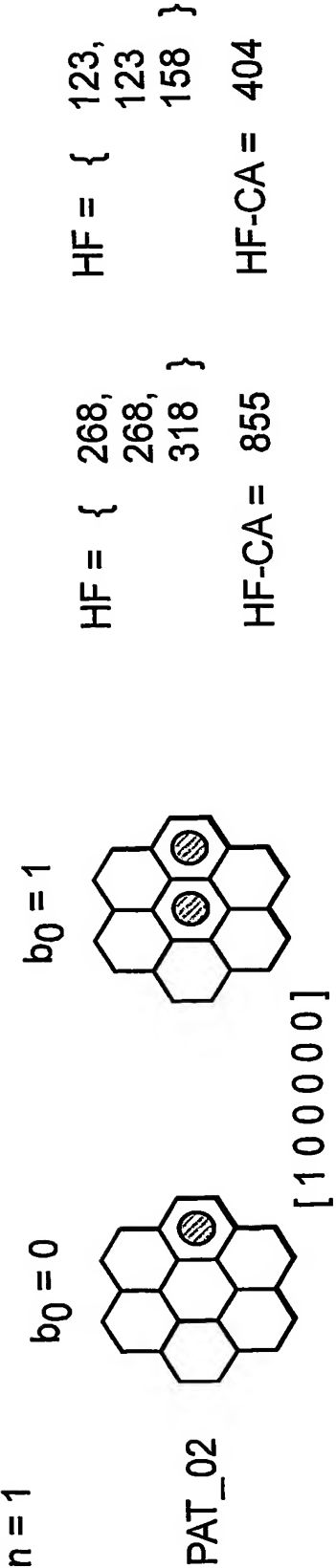


FIG.18

CA-Signals

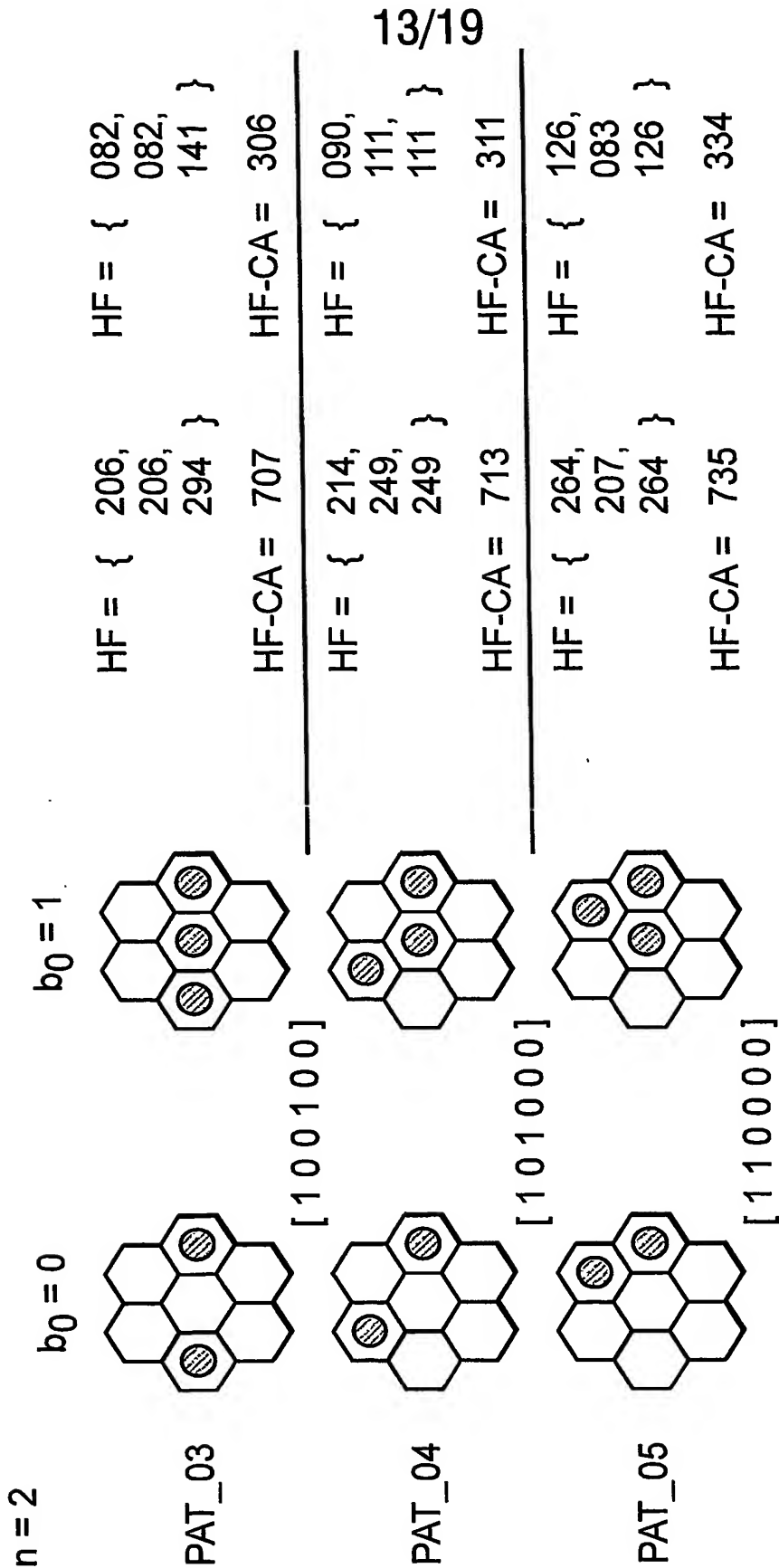


FIG.19

CA-Signals

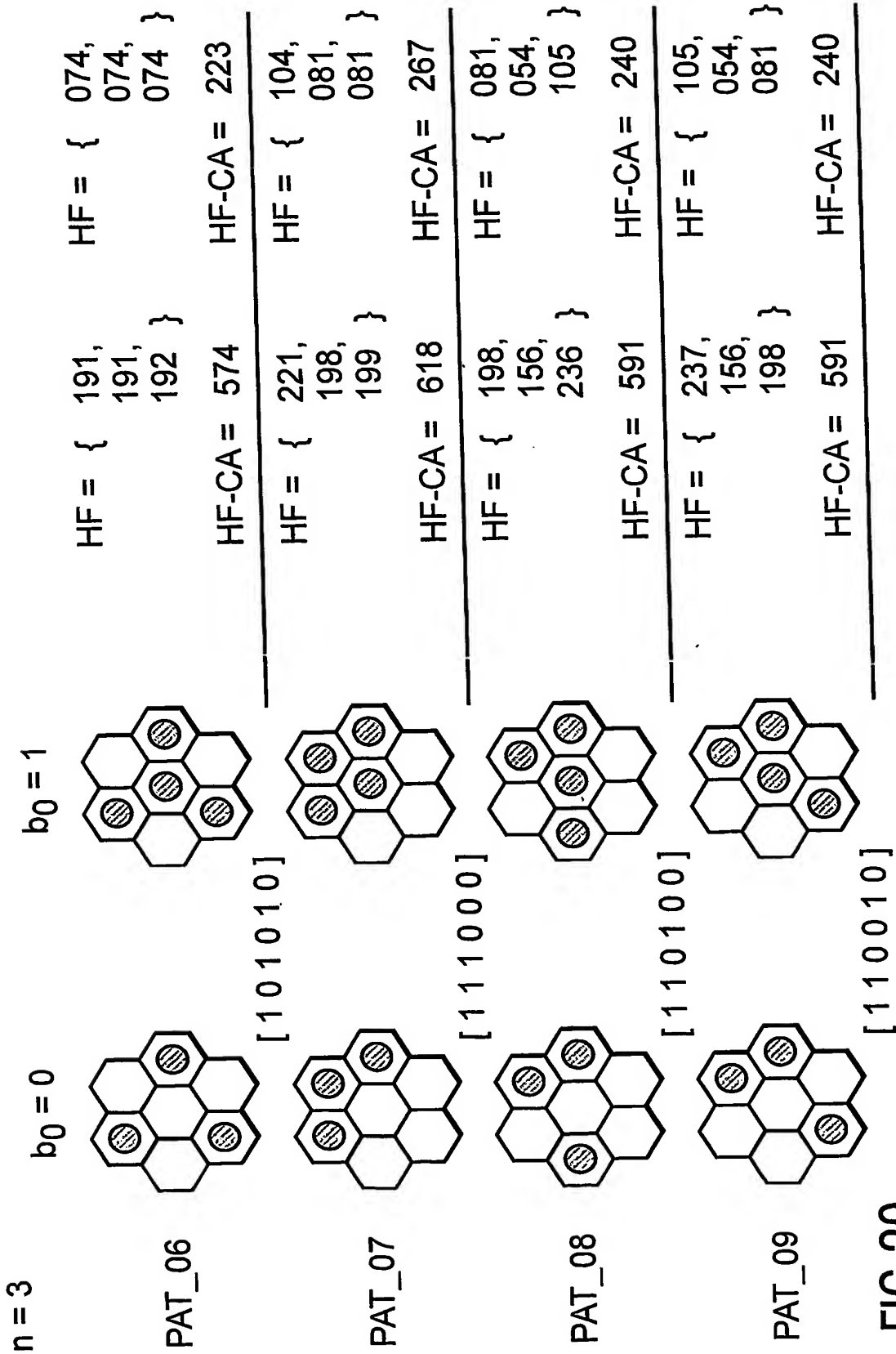


FIG.20

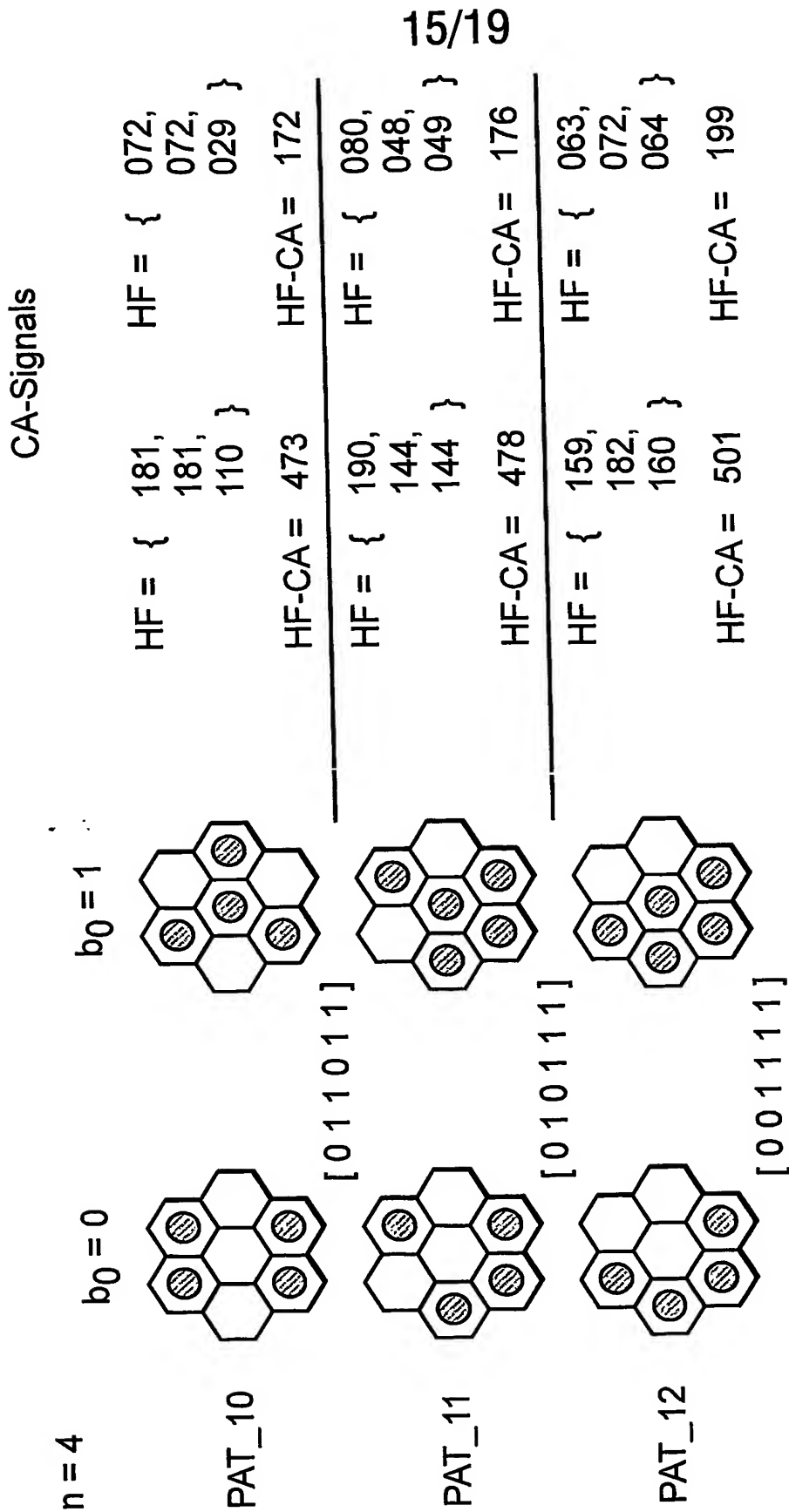


FIG.21

CA-Signals

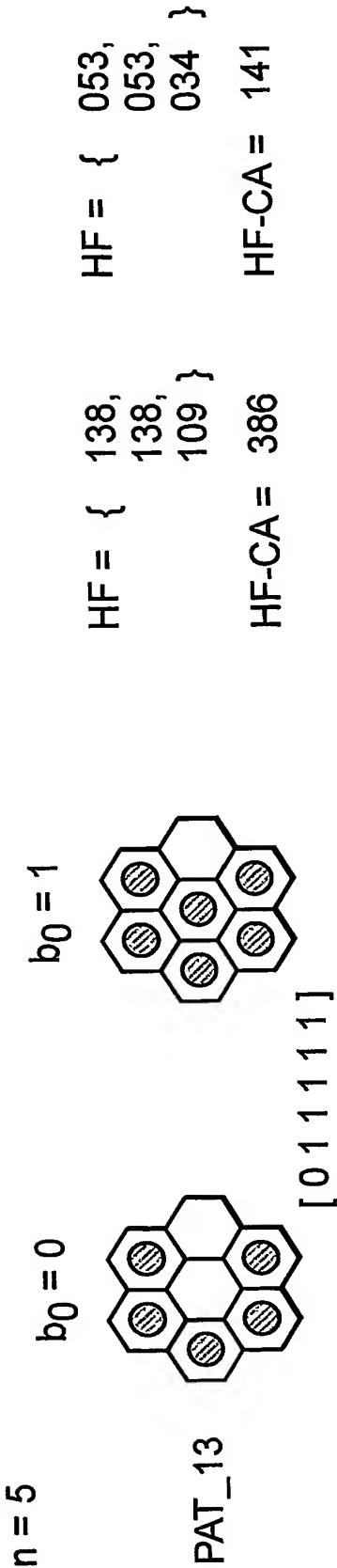


FIG.22

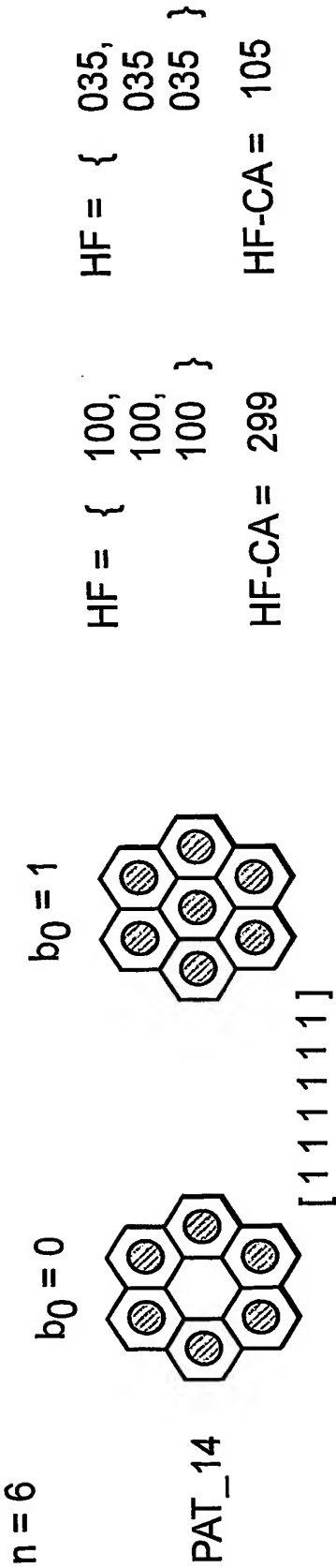


FIG.23

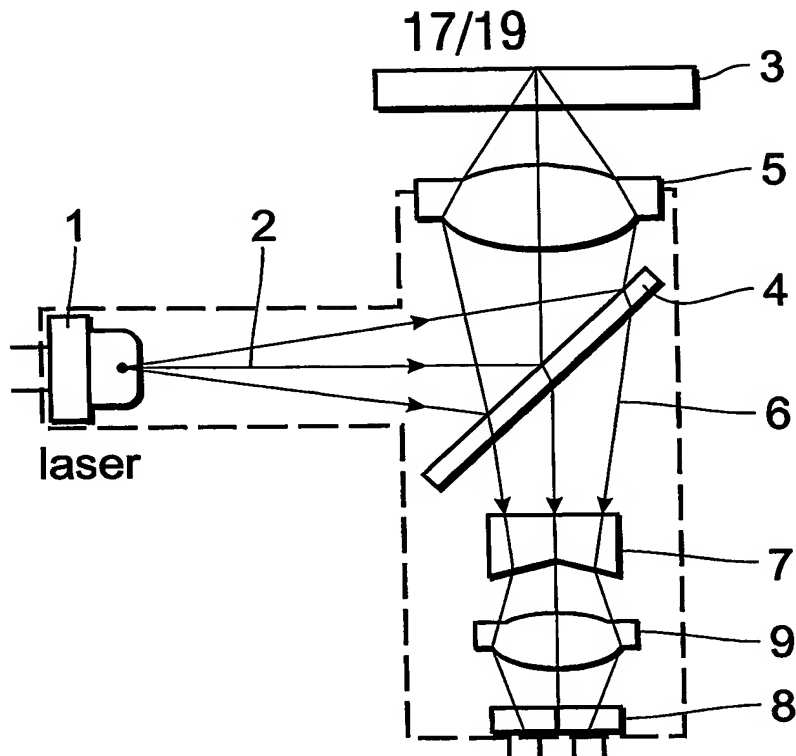


FIG.24

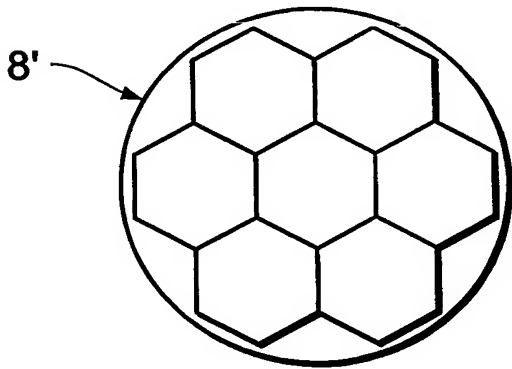


FIG.25

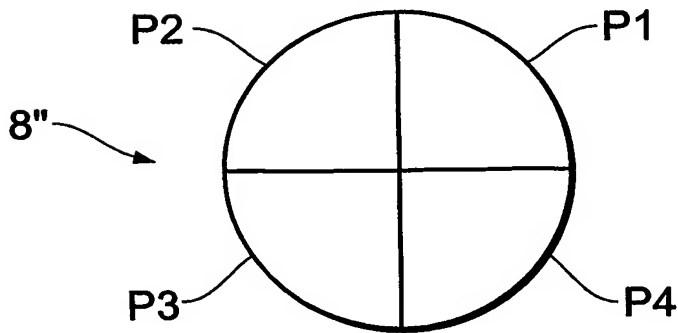


FIG.26

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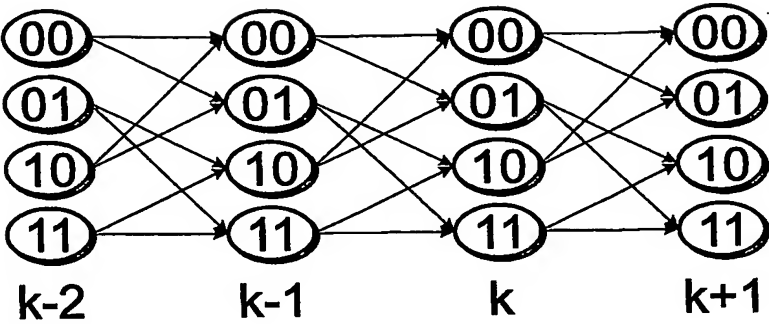


FIG.27

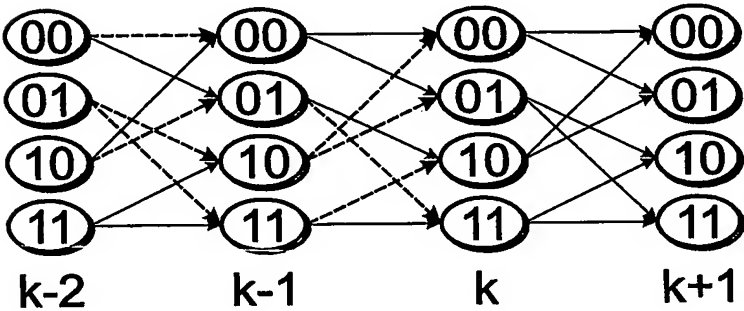


FIG.28

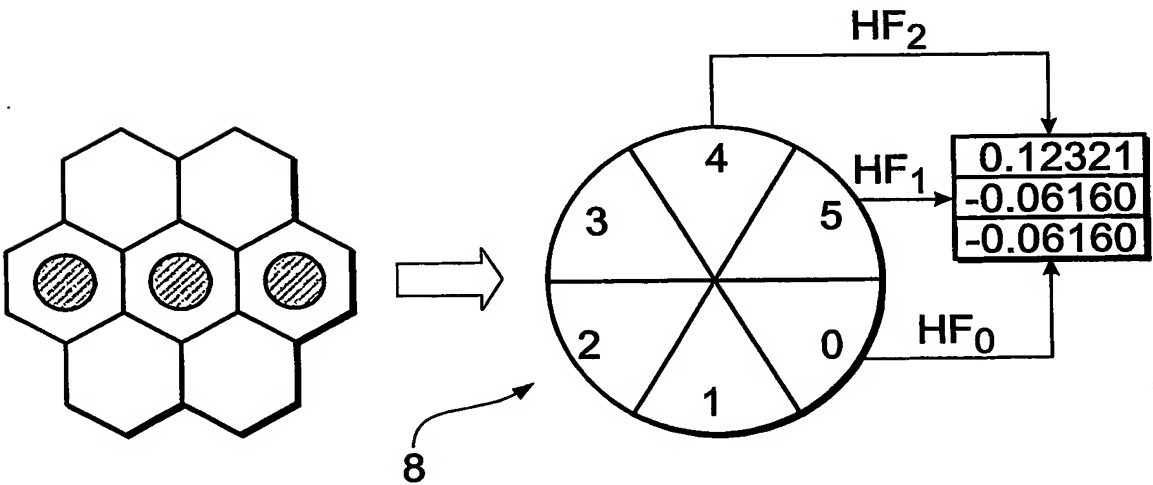


FIG.29

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Class #	Central Bit	# outer bits	pattern description	# members	Vector Components			Threshold
					1	2	3	
000	0	0	000	1	0.00	0.00	0.00	1.00
001	0	1	001,100	6	0.10	-0.05	-0.05	0.09
002	0	2	100+1	12	0.06	0.06	-0.12	0.74
003	0	2	101	3	0.18	-0.09	-0.09	0.71
004	0	3	100+1+1	8	0.04	-0.02	-0.02	0.62
005	0	3	101+1	12	0.13	0.01	-0.14	0.59
006	0	4	101+2	6	0.05	-0.02	-0.02	0.50
007	0	4	101+1+1	6	0.09	-0.04	-0.05	0.48
008	0	4	101+101	3	0.09	0.07	-0.16	0.18
009	0	5	101+2+1	6	0.04	0.03	-0.06	0.39
010	0	6	101+2+2	1	0.00	0.00	0.00	0.30
100	1	0	010	1	0.00	0.00	0.00	0.50
101	1	1	110,011	6	0.08	-0.04	-0.04	0.40
102	1	2	110+1	12	0.05	0.04	-0.09	0.33
103	1	2	111	3	0.12	-0.06	-0.06	0.31
104	1	3	110+1+1	8	0.04	-0.02	-0.02	0.27
105	1	3	111+1	12	0.08	0.02	-0.09	0.24
106	1	4	111+2	6	0.02	-0.01	-0.01	0.20
107	1	4	111+1+1	6	0.06	-0.03	-0.03	0.18
108	1	4	111+111	3	0.05	0.05	-0.10	0.17
109	1	5	111+2+1	6	0.02	0.02	-0.03	0.14
110	1	6	111+2+2	1	0.00	0.00	0.00	0.10

FIG.30